

L 16671-65 EWT(m)/EWP(b) RAEM(c)/SSD/AFWL/ASD(m)-3 JD/JG

ACCESSION NR: AP4045848

S/0075/64/019/009/1110/1116 /

AUTHOR: Ryabchikov, D. I.; Lazarev, A. I.; Lazareva, V. I. 75

TITLE: Photometric determination of microimpurities in rhenium and its preparations 27

SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 9, 1964, 1110-1116

TOPIC TAGS: spectrophotometry, colorimetric analysis, vanadium, nickel, tin, cobalt, manganese, iron, chromium, zinc, rhenium

ABSTRACT: Since small amounts of impurities affect the properties of rhenium it was necessary to develop a method for the determination of these impurities. The photometric method was used for the determination of vanadium, nickel, tin, cobalt, manganese, iron, chromium and zinc. The optical density of solutions was measured with a SF-5 spectrophotometer and a FEK-M photoelectric colorimeter. The Beer-Lambert law was obeyed for the solutions of all elements except vanadium. The amount of element was determined from the calibration curve or by the method of standard additions. Vanadium was determined from its

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catalytic effect on the oxidation of aniline with chlorate in a weakly acid medium. At room temperature the rate of reaction is insignificant and the desired sensitivity is obtained by keeping the solution on a steam bath for 10 minutes. Nickel was determined by the extraction-photometric method using α,α' -furyldioxime. Copper interferes with this determination. Tin was determined using 9-phenyl-2,3,7-trihydroxy-6-fluorone as the reagent in the presence of citric acid. The molar extinction coefficient of this complex at 505 m μ is 7.7×10^4 . Manganese was determined as permanganate, produced by oxidation of divalent manganese with potassium periodate. Iron was determined using α,α' -dipyridyl complex with divalent iron. The iron was reduced using hydroxylamine, while thiourea was used for masking copper, silver and mercury. Diphenylcarbazide was used as the reagent for hexavalent chromium. Complexon III was used to increase the stability of ethanolic solutions of diphenylcarbazide. Cobalt was determined using nitro-P salt. Zinc was separated from interfering elements by extraction and determined using methylene blue. Orig. art. has: 1 figure and 8 tables.

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ACCESSION NR: AP4045848

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo
AN SSSR (Institute of Geochemistry and Analytical Chemistry AN SSSR)

SUBMITTED: 26Sep63

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NO REF SOV: 023

OTHER: 01

Card 3/3

L 15999-66 EWT(m)/EWP(t) IJP(c) JD

ACC NR: AP5024143

SOURCE CODE: UR/0075/65/020/009/0960/0965

AUTHOR: Ryabchikov, D. I.; Lazareva, V. I.; Lazarev, A. I.

33
B

ORG: Institute of Geochemistry and Analytical Chemistry im. V. I. Vernadskiy,
AN SSSR, Moscow (Institut geokhimii i analiticheskoy khimii)

TITLE: Determination of rhenium by kinetic method

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 9, 1965, 960-965

TOPIC TAGS: rhenium, catalysis, selenium compound, spectrophotometry

ABSTRACT: Small and trace amounts of rhenium were usually determined from their catalytic effect on the reaction between tellurate and bivalent tin in an acid medium. An experiment was made on substituting selenate for tellurate. The reaction $\text{SeO}_4^{2-} + 3\text{Sn}(\text{II}) + 8\text{H}_3\text{O}^+ \rightarrow \text{Se}^{4+} + 3\text{Sn}(\text{IV}) + 12\text{H}_2\text{O}$ is normally very slow, but it increased noticeably in the presence of rhenium. The rate of catalytic reaction

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UDC: 543.70

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was proportional to the changes with time of the optical density of observation of the reaction for determining the rhenium content. A suspension of elemental Se was obtained in the presence of gum arabic. The optical density of the suspension was measured by the SF-5 spectrophotometer. The transparent selenium hydrosol, in the presence of gum arabic, had a reddish color. The maximal light absorption was found in the ultraviolet part of the spectrum. A study of the catalytic effect of rhenium on the oxidation-reduction reaction between the selenate and bivalent tin, as a function of the type and concentration of acids, selenates, bivalent tin, and foreign admixtures, produced a method for the analysis of phenium-containing substances. For the determination of rhenium in solution, 2 ml of 0.5M potassium selenate solution, 2 ml of 2M tartaric acid solution, 0.2 ml of 2% gum arabic solution, 3 ml of 0.45M of bivalent tin chloride in hydrochloric acid (1:3), and distilled water to the mark. After 30-90 minutes measure the optical density in a cuvette (+ray) with a 10 mm layer at 380-400 m in reference to the water. The duration of the color development depends on the content of rhenium. The reference experiment is necessary. The content of rhenium is determined by the method of additions. Orig. art. has: 14 formulas, 8 figures, and 1 table.

SUB CODE: O7.11 SUBM DATE: 25 May 64/ ORIG REF: 008/ OTH REF: 003
Card 2/2 J.P.

LAZAREV, A.I.; LAZAREVA, V.I.; REGUZOVA, Z.V.

Method of differential spectrophotometry based on the measurement of photoelectric current by means of photoelectrocolorimeters. Zav. lab. 31 no.9:1064-1066 '65. (MIRA 18:10)

1. Novomoskovskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta azotnoy promyshlennosti i produktov organicheskogo sinteza.

LAPAREVA, Valya; LAPATEV, Alex.

Abstract-electro-therm determination of bismerthiazolophosphine
Chem. Ind. (London) 1964, 44(138-139)

1. Nekonorkovskij Filial Gosudarstvennogo nauchno-issledovatel'skogo i proizvodstvennogo instituta po sinteze i polimerizacii organicheskogo sinteza.

ACC NR: A76019018

(N)

SOURCE CODE: UR/0032/66/032/001/0024/0025

AUTHOR: Lazarev, A. I.; Lazareva, V. I.; Ushko, N. S.

ORG: Institute of New Chemical problems, AN SSSR (Institut novykh khimicheskikh problem Akademii nauk SSSR)

TITLE: Determination of titanium in titanium nitride by photometric titration in a photometric colorimeter

SOURCE: Zavodskaya laboratoriya, v. 32, no. 1, 1966, 24-25

TOPIC TAGS: titanium, titanium compound, photometric analysis, colorimetric analysis,
ANTRIDE

ABSTRACT: Photocolorimetric analysis is carried out in a FEK-type photoelectrocolorimeter by using two methods. The first method requires special devices: a cell-parallelepiped wooden cell holder, and a mixer. The second method is less convenient but does not require any special arrangement. Titrant is added into a flask containing a titrated solution, the cell is filled with a colored solution, the absorbance is measured with respect to water, the solution is again poured from the cell into the flask, etc. Solutions having an initial absorbance of <1 (better ~0.5) should be used with a noticeably high absorption of light and without photocurrent intensification. For making the analysis, an 0.3 g sample of Ti nitride is placed into a 100 ml flask, 20 ml of H_2SO_4 solution (1:1) and 2 g of Na nitrate are added, and the mixture is heated. If

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ACC NR: AP6019018

the sample is not dissolved, then the solution is cooled, 0.5 g of nitrate is added and the mixture is heated up to the beginning of liberation of H_2SO_4 vapors without permitting precipitation. The cooled solution is transferred into a 100 ml measuring flask, 0.5 N H_2SO_4 solution is gradually added, 1 ml of perhydrol is poured in, and the content is brought to the mark with the same acid. An aliquot part of the solution is then placed in a titrating glass and neutralized with 10% solution of NaOH until a weak, yellowish-green color appears. Then 7-10 ml of 1 N H_2SO_4 and 25 ml of 0.05 M complexon III are added. After 10 minutes, 3-5 drops of 0.5% xylol orange are added and the excess of complexon is titrated with a 0.05 M solution of Bi nitrate prepared from metallic Bi and 0.5 N HNO_3 . A green filter is used. The equivalent point is found graphically. The Ti content is calculated from the following formula:

$$\%Ti = \frac{(V_1k_1 - V_2k_2)47.9 \cdot 0.05 \cdot 100 \cdot 100}{gV_a \times 1000} .$$

where V_1 is the volume of the complexon added, V_2 is the amount of Bi nitrate consumed, k_1 and k_2 are correction coefficients, V_a is the volume of aliquot, and g is the weight of the sample. Orig. art. has: 1 fig. and 1 formula.

SUB COLE: 07/ SUBM DATE: none/ ORIG REF: 002

LAZAREVA, V.M.

Argillaceous minerals of the Tertiary syngenetic oil-bearing series of Daghestan and certain regularities in their distribution. Trudy VNIGNI no.40:129-145 '64. (MIRA 17:6)

FILIPPOV, B.V.; LAZAREVA, V.M.

Lithomineralogical and physical characteristics of clay rocks
in Albian sediments in western Ciscaucasia. Dokl. AN SSSR
157 no.1:108-111 Jl '64
(MIRA 17:8)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-
razvedochnyy institut. Predstavлено академиком N.M. Strakhovym.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920012-8

LAZAREVA, V.M.

Mineralogical composition of Middle Jurassic clay rocks in Daghestan,
Trudy VNIGNI no.38:224-237 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920012-8"

CHURINOV, M.V.; TSYPINA, I.M.; LAZAREVA, V.P.

Principles and methods for compiling general areal maps
of the U.S.S.R. on a 1:1,500,000/1:2,500,000 scale.
Sov.geol. 5 no.11:112-124 N '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
gidrogeologii i inzhenernoy geologii.
(Engineering geology—Maps)

LYUBISHIN, A.A.; LAZAREVA, V.S.

Comparative action of toxic products obtained from the fungi
Fusarium sporotrichiella and Fusarium poae. Trudy Oren. otd.
Vses. fiziol. ob-va no.2:95-99'60. (MIRA 16:8)

1. Kafedra farmakologii (zav. - prof. A.A.Lyubushin) Oren-
burgskogo meditsinskogo instituta.
(FUSARIUM—TOXICOLOGY)

TOYKKA, M.A., dotsent; LAZAREVA, Ye.A.

Copper and manganese content of soils in Sortavala District.
Uch. zap. Petrozav. gos. un. 12 no.3:97-99 '64.

1. Kafedra neorganicheskoy khimii Petrozavodskogo gosudarstvenno-go universiteta imeni O.V. Kuusinena. (MIRA 19:1)

S/044/62/000/005/057/072
C111/C444

AUTHOR: Lazareva, Ye. D.

TITLE: On the synthesis of specialised computing machines

PERIODICAL: Referativnyy zhurnal, Matematika, no. 5, 1962, 57,
abstract 5V318. ("Izv. Leningr. elektrotekhn. in-ta",
1961, no. 45, 311-317)

TEXT: One describes normal algorithms of Markov and the matrice form of the writing down of the algorithms (RZhMat, 1959, 9686). One mentions that the normal algorithms are unhandy for a realisation by machines. Under this aspect the putting down in matrice form is easier. Further on the author constructs a system of s equations by introducing s additional variables, $s = -\lceil -\log_2 n \rceil$ and n being the number of operators completely determining the succession of the carrying-out of the operators. The general scheme of a machine which realises the algorithms put down in the manner above mentioned is given.

[Abstracter's note: Complete translation.]

Card 1/1

YERMOL'YEVA, Z.V.; LAZAREVA, Ye.N.

Medicinal forms of penicillin. Med. promyshl. SSSR no.5:12-17 Sept-Oct 1952.
(CLML 23:4)

1. All-Union Scientific-Research Institute for Penicillin and Other Antibiotics.

Lazareva, E.N.

The experimental study of nonprotein preparations from the liver and thyroid gland. Z. V. Ermol'eva, L. K. Val'dinskaya, E. N. Lazareva, A. P. Avtyn, A. B. Azletskaya, B. K. Berezina, B. V. Ravich, A. M. Rykaleva, and A. M. Guslovat. *Trudy Akad. Med. Nauk S.S.R., Antibiotiki i ikh Primenenie* 22, No. 1, 14-21(1952).—Anstipin (I) (from the liver) and extraziu (II) (from the thyroid) are bactericidal and bacteriostatic against the tubercle bacillus and in large doses, against typhoid, dysentery, diphtheria, proteus, and pyocyanous bacilli. II also stimulates the phagocytic function of the histiocytes. II modulates and vitalizes the course of tuberculosis infection in white mice when given by mouth or subcutaneously. I renders harmless the lethal dose of diphtheria toxin.

A. S. Mirkin

(8)

YERMOL'YEVA, Z.V.; SEMICH, A.I.; AVTSYN, A.P.; RAVICH, B.V.; BEREZINA, Ye.K.;
LAZAREVA, Ye.N.; GUSLOVA, A.M.

Study of streptomycin and of combined streptomycin preparations. Trudy
AMN SSSR 22:37-46 '52.
(MLRA 6:6)
(Streptomycin)

LAZAREVA, Ye.N., kandidat biologicheskikh nauk; RAVICH, B.V., kandidat
biologicheskikh nauk.

Mechanism of the penicillin resistance of acid-resistant micro-
organisms producing penicillinase. Trudy VNIIA no.1:124-131 '53.
(Penicillin) (Bacteria) (Penicillinase)
(MIRA 8:1)

RAVICH, B.V., kandidat biologicheskikh nauk; LAZAREVA, Ye.N., kandidat
biologicheskikh nauk.

Penicillinase of acid-resisting microorganisms. Trudy VNIIA no.1:131-
140 '53.
(Penicillinase) (Bacteria)

LAZAREVA, Ye. N.

Antibiotics

Medicinal forms of antibiotics. Antibiotiki 6, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

LAZAREVA, Ye. N.

Therapeutic forms of penicillin, streptomycin, terramycin, and
chloramphenicol; from data in foreign periodical literature.
Antibiotiki 7 no.4:19-31 '54.
(Antibiotics) (MLRA 7:9)

LAZAREVA, Ye.N.

Therapeutic forms of antibiotics. Antibiotiki 1 no.3:55-58
My-Je '56.
(ANTIBIOTICS,
(Rus))

(MLRA 9:10)

LAZAREVA, Ye.N.,; PETROVA, M.A.,; AVTSYN, A.P.,; BEREZINA, Ye.K.,;
SEMICH, A.I.,; RYKALEVA, A.M.,; AVER'YANOVA, L.L.,; GLAGOVSKAYA,R.S.

Sodium salt of biomycin. Antibiotiki, Moskva 9 no.2:3-6 Mar-Apr
56 (MLRA 9:3)

1. Otdel eksperimental'noy terapii (zav.-chlen-korrespondent
AMN SSSR prof. Z.V. Yermol'yeva) Vsesoyuznogo nauchno-issledovatel'-
skogo instituta antibiotikov.
(CHLORTETRACYCLINE
sodium salt, pharmacol.)

LAZAREVA, Ye.N., kandidat biologicheskikh nauk

Use of antibiotics; therapeutic forms of antibiotics; review of
foreign periodical literature. Antibiotiki 9 no.5:51-61 '56.
(ANTIBIOTICS, ther. use
review) (MLRA 9:10)

LAZAREVA, Ye.n.; GLAGOVSKAYA, R.S.; AVER'YANOVA, L.L.; SAVELYEVA, A.M.

Penicillin-ecmo. Antibiotiki 2 no.5:49-53 S-O '57. (MIRA 10:12)

1. Otdel eksperimental'noy terapii Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

(PENICILIN, administration,
with ecmoline (Rus))

(ANTIBIOTICS, administration,
ecmoline with penicillin (Rus))

LAZAREVA, Ye. N.

TERMOL'YEVA, Z.V., LAZAREVA, Ye.N., SOBOLEV, V.P., SAVEL'YEVA, A.I.,

Comparative study on therapeutic forms of penicillin for peroral administration under experimental conditions [with summary in English].
Antibiotiki, 3 no.3:45-49 My-Je '58
(MIRA 11:?)

1. Kafedra mikrobiologii TSentral'nogo instituta usovershenstvovaniya vrachey i otdel khimioterapii Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

(PENICILLIN, effects,
on bact. in vitro, comparison of various oral prep.
(Rus))

MAKAROVSKAYA, L.N.; ALESHINA, Ye.N.; LAZAREVA, Ye.N.

Dibenzylethylenediamine salt of chlortetracycline in the prevention
and treatment of experimental plague. Antibiotiki 5 no.1:70-73 Ja-?
'60. (MIRA 13:7)

1. Rostovskiy-na-Donu gosudarstvennyy nauchno-issledovatel'skiy
protivochumnyy institut i kafedra mikrobiologii TSentral'nogo instituta
usovershenstvovaniya vrachey.
(CHLORTETRACYCLINE) (PLAQUE)

YERMOL'YEVA, Z.V.; LAZAREVA, Ye.N.; POTRAVNOVA, R.S.; VASILENKO, O.S.;
YEREMOVA, S.A.

Results of experimental studies on dihydrostreptomycin paraaminosalicylate. Antibiotiki 6 no.5:385-390 My '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTOMYCIN) (SALICYLIC ACID)

YERMOL'YEVA, Z.V.; LAZAREVA, Ye.N.

New antibiotic preparations for infectious disease control. Antibiotiki
6 no.9:10-16 S '61. (MLR 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov i
kafedra mikrobiologii TSentral'nogo instituta usovershenstvovaniya
vrachey.

(ANTIBIOTICS) (COMMUNICABLE DISEASES--PREVENTION)

YERMOL'YEVA, Z.V.; LAZAREVA, Ye.N.; VOINOVA, T.I.; AVER'YANOVA, L.L.;
ZATSEPIN, N.D.

Prospects for the use of dibiomycin in treating trachoma. Antibiotiki
6 no.9:58-61 S '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov i
Nauchno-issledovatel'skiy institut glaznykh bolezney imeni Gel'mgol'tsa.
(AUREOMYCIN) (CONJUNCTIVITIS, GRANULAR)

LAZAREVA, Ye.N.; BELOZEROVA, O.P.; AVER'YANOVA, L.L.; RYKALEVA, A.M.

Dibiomycin -- a chlortetracycline for prolonged activity. Antibiotiki
6 no.10:863-867 0 '61.
(MIR 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(AUREOMYCIN)

LAZAREVA, Ye.N.; VASILENKO, O.S.; POTRAVNOVA, R.S.; YEFREMOVA, S.A.;
YERMOL'YEVA, Z.V.

Results of the experimental and clinical study of pantomycin.
Antibiotiki 6 no.11:959-963 N '61. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTOMYCIN)
(PANTOTHENIC ACID)

LAZAREVA, Ye.N.

New preparations and medicinal forms of antibiotics. Med.prom.
16 no.7:14-18 J1 '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS)

YERMOL'EVA, Z.V.; TERSKIKH, I.I.; DZHUMANDAYEVA, A.A.; LAZAREVA, Ye.N.

Comparative study of the effect of the new preparation di-tetracycline and other antibiotics on the trachoma virus.
Vop. virus. 8 no.3:343-346 My-Je'63.

(MIRA 16:10)

(CONJUNCTIVITIS, GRANULAR —MICROBIOLOGY)
(VIRUS RESEARCH) (ANTIBIOTICS)

LAZAREVA, Ye. N.; BELOZEROVA, O. P.; KUTSKAYA, I. P.; POTRAVNOVA, R. S.; BEREZINA, Ye. K.;
EYDEL'SHTEYN, S. I.; SAVEL'YEVA, A. M.; RUBTSOVA, L. K.

"New derivatives of antibiotics of the tetracycline series."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

All-Union Res Inst of Antibiotics, Moscow.

BISHARA, E.I.; LAZAREVA, Ye.N.

Ecmoline salt of phenoxyethylpenicillin. Antibiotiki 9
no.5:403-408 My '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

VASIL'YEV, V.K.; LAZAREVA, Ye.N.; POCHAPINSKIY, V.I.

Effect of some components of ointment bases on the penetration of chlortetracycline through intact skin in rabbits. Antibiotiki 10 no.5:442-445 My '65. (MIRA 18:6)

I. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

LAZAREVA, Ye.N.; BISHARA, Emil' I.

Long-action oxacillin. Antibiotiki 10 no.6:492-496 Je '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

LAZAREVA, Ye.N.; ZIMINA, L.Z.; POTRAVNOVA, R.S.

Synthetic streptomycin derivatives. Antibiotiki 9 no. 2:99-105
F '64.

(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

L1124niv v. 1. Ye. . .

15-57-2-1278

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 2,
p 11 (USSR)

AUTHORS: Semikhatova, Ye. N., Lazareva, Ye. P., Chelmokayeva,
S. S.

TITLE: New Data on the Stratigraphy of the Lower Tertiary
Deposits in the Stalingrad Volga District (Novyye
dannyye k stratigrafiil nizhetretichnykh otlozheniy
Stalingradskogo Povolzh'ya)

PERIODICAL: Uch. zap. Rostovsk.-na-Donu un-ta, 1954, Vol 23, Nr 5,
pp 93-97

ABSTRACT: Bibliographic entry

Card 1/1

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920012-8

LAZAREVA, YE. P.

LAZAREVA, YE. P. -- "The Biostratigraphic Upper Paleocene Deposits of the Eastern Periphery of the Greater Donets Basin." Rostov State University imeni V. M. Molotov, Rostov-on-Don, 1956. (Dissertation for the Degree of Candidate of Geologocomineral Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920012-8"

15-1957-10-13576

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p 17 (USSR)

AUTHOR: Lazareva, Ye. P.

TITLE: Stratigraphy of the Tertiary Rocks of the Northeastern
Border of the Donbass (Donets Basin) (K stratigrafii
tretichnykh otlozheniy severovostochnoy okrainy Don-
bassa)

PERIODICAL: Uch. zap. Rostovsk. n/D. universitet, 1956, Vol. 7, Nr 34
pp 59-63

ABSTRACT: The Tertiary beds of the Donbass border (the Morozov-
skiy and Nikolayevskiy rayons) have been divided into
Paleogene and Neogene units on the basis of foraminifer-
al studies. The Kiyevskiy stage has been distinguished
among the Paleogene rocks and has been divided into
lower Kiyevskiy and upper Kiyevskiy layers. The lower
Kievskiy layer is characterized by a group of foramin-
ifers: Listerella subbotinae Nikit., Vaginulinopsis
fragaria Glimb., Gaudryina filliformis Berth., Frondi-
Gard 1/2

15-1957-10-13576

Stratigraphy of the Tertiary Rocks of the Northeastern Border of the
Donbass (Donets Basin)

cularia temnissima Hantken., Saracenaria arcuata (Orb.), and Marginulina subbulata d'Orb. The upper Kiyevskiy layer contains Clavulina szaboi Hantken., Heterostomella gigantica, Vagimulinopsis asperuliformis Nuttall, Bulimina sculptilis Cussh., and Bolivina ex. gr. aenariensis Costa. Neogene rocks (Sarmatian stage) have been identified here for the first time; formerly their boundary was placed farther south. In the region of the Latyshev farm (Nikolayevskiy rayon), sandy marls lie on rocks of the Kiyevskiy stage. They contain an assemblage of foraminifers, in which forms characteristic of the Sarmatian stage occur together with typical Kiyevskiy forms. Examples are Elphidium regina (Orb.), E. regina (Orb.) var. caucasica Bogd., E. crispum (Linne), and E. macellum (Fish. and Moll.) Ostracods in the assemblage are Cytheridea latiferalis Brady and Candona albicanis Brady. The Sarmatian rocks are covered by Quaternary non-fossiliferous clays.

Card 2/2

N. N. Barkhatova

SHAMRAY, I.A.; LAZAREVA, Ye.P.

Palaogenetic Coccolithophoridae and their stratigraphic importance.
Dokl.AN SSSR 108 no.4:711-714 Je '56. (MLRA 9:9)

I.Rostovskiy gosudarstvennyy universitet imeni V.M.Molotova.
Predstavлено академиком N.M.Strakhovym.
(Coccolithophoridae, Fossil)

ZUBIN, A.M., kand.biologicheskikh nauk; LAZAREVA, Ye.P., mladshiy
nauchnyy sotrudnik

Studying the outer scale of wool fibers with the electron micro-
scope. Nauch.-issl.trudy NIIMP no.10:3-11 '60.

(MIRA 14:4)

(Wool)

ZUBIN, A.M., kand.biolog.nauk; LAZAREVA, Ye.P., mladshiy nauchnyy sotrudnik;
MAKAROVA, S.V., laborant

Developing a method for the microscopic control of the impragnation
of pelt tissues. Nauch.issl.trudy NIIMP no.11:80-90 '62.

(MIRA 16:5)

(Fur--Dressing and dyeing) (Resins synthetic)
(Fluorescence microscopy)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920012-8

ZUBIN, A.M., kand. biolog. nauk; I.ZAREVA, Ye.P., maldshiy nauchnyy sotrudnik

Application of the method of microscopic analysis in the evaluation
of the efficiency of the dressing of the hair, covering of sheep
pelts. Nauch. issl. trudy NIIMP no.12:62-73 '63.

(MIRA 17:11)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920012-8"

ALEKSANDROV, N.I.; GEFFEN, N.Ye.; GAPOCHKO, K.G.; GARIN, N.S.; SERGEEV, V.M.;
LAZAREVA, Ye.S.; MISHCHENKO, V.V.; SULYAKHOV, E.N.

Aerosol immunization with dry live vaccines and anatoxins. Report
No.6: Study of the reactogenic and immunological effectiveness of
aerosol immunization with spray vaccines (brucellosis, tularemia,
anthrax and plague) in man. Zhur. mikrobiol. epid. i immun. 32
no.7:56-62 Je '61. (MIRA 15:5)

(VACCINATION) (AEROSOLS)
(COMMUNICABLE DISEASES--PREVENTION)

ALEKSANDROV, N.I.; GEFEN, N.Ye.; GAPOCHKO, K.G.; GARIN, N.S.; GORDON, G.Ya.
KOZHUSHKO, M.I.; KORENEV, G.P.; LAZAREVA, Ye.S.; LEYKEKHMAN, Ye.P.;
MASLOV, A.I.; PAVLOV, G.A.; POLIVANOV, N.D.; ROMANOV, P.S.; RYBAKOV,
P.S.; RYBAKOV, M.G.; SAMOKHVALOV, M.F.; SMIRNOV, M.S.; SHTERN, M.A.;
CHEPKOV, V.N.

Experience with mass aerosol immunization with tularemia dust
vaccine. Zhur. mikrobiol., epid. i imm. 41 no. 2:14-43 F '64.
(MIRA 17:9)

ZAYTSEV, S.G.; LAZAREVA, YE.V.; TRUKHANOVA, L.N.; SHATILOV, A.P. (Moscow)

"Shock-tube investigation of the density behind the reflected
shock wave".

report presented at the 2nd All Union Congress on Theoretical
and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

L 20818-65 EWT(1)/ENP(m)/ENG(v)/FCS(k)/EWA(h)/EWA(1) Pd-1/Pe-5/P1-4 SSD(b)/
AEDC(m)/ESD/AFWL/AEDC(a)/BSD/ASD(f)-3/ASD(p)-3/AFETR/RAEM(a)/ESD(gs)/MLK
ACCESSION NR: AT4048013 S/0000/64/000/000/0104/0114

AUTHOR: Zaytsev, S. G., Shatilov, A. P., Lazareva, Ye. V., Trukhanova, L. N., Averina,
L. A., Yaichkov, M. K.

TITLE: Methods for measuring the density field of gas flow in a shock tube with the aid
of an interferometer

AM
B+1

SOURCE: AN SSSR. Energeticheskiy institut. Fizicheskaya gazodinamika i svoystva
gazov pri vysokikh temperaturakh (Physical gas dynamics and properties of gases at
high temperatures). Moscow, Izd-vo Nauka, 1964, 104-114

TOPIC TAGS: gas dynamics, gas density measurement, shock wave, shock tube, inter-
ferometry, nitrogen shock wave

ABSTRACT: The paper deals with techniques for interferometric studies of shock waves
in a tube. The lengths of the high and low pressure tubes are 0.9 and 3.4 m, respectively,
the internal cross section is 72 x 72 mm, and the side-walls of the end-section are made
of accurately (0.2 band over the entire field) plane-parallel glass. A description of the
electronic details for recording, synchronization, etc. is then given. A Mach-Zehnder
interferometer was used. The 'white' light source provided a light-pulse of 1 μ sec effective
length, by point and line-discharges of a capacitor charge to 10 kV. The scanning
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ACCESSION NR: AT4048013

method allowed continuous density measurement at a fixed plan with spatial resolution of 1-1.5 mm and time resolution of 2-3 μ sec. The electronic recording system for framing photography is also described, using an image-converter type PIM-3 made in the laboratory of M. M. Butslov, so that the high-speed processes could be recorded on a fixed film. The shift of bands could be measured on a microscope with an accuracy of less than 0.1 of a band, and the maximum and minimum blackening were measured with an MF-2 microphotometer. The method of calibration is described and the total error in density determination is graphed for incident and reflected shocks as a function of the Mach-number of the incident shock, in nitrogen with an initial pressure of 10 mm Hg and a temperature of 300K. Orig. art. has: 11 figures and 6 equations.

ASSOCIATION: Energeticheskij institut AN SSSR (Power Engineering Institute, AN SSSR)

SUBMITTED: 06Mar64

ENCL: 00

SUB CODE: ME

NO REF SOV: 006

OTHER: 002

Card 2/2

L 20820-65 EWP(m)/EWA(h)/EWT(1)/FCS(k)/EWA(1)/ Pd-1/P1-4/ BSD/SSD(b)/AFRL/
AEDC(a)/SSD/ASD(f)-3/ASD(p)-3/AFETR/AFTC(a)/RAEM(a)/ESD(gs)/ESD(t) MLK

ACCESSION NR: AT4048014

S/0000/64/000/000/0115/0118

AUTHOR: Zaytsev, S. G., Shatilov, A. P., Lazareva, Ye. V., Trukhanova, L. N.

TITLE: Investigation of the interaction of a reflected shock with the boundary layer of flow behind an incident shock wave

SOURCE: AN SSSR. Energeticheskiy institut. Fizicheskaya gazodinamika i svoystva gazov pri vyshokikh temperaturakh (Physical gas dynamics and properties of gases at high temperatures). Moscow, Izd-vo Nauka, 1964, 115-118

TOPIC TAGS: gas dynamics, shock wave, reflected shock wave, boundary layer, interferometry, nitrogen shock wave

ABSTRACT: The paper gives the results of a study of the interaction of the front of a reflected shock wave with the boundary layer of an oppositely directed flow, with the aid of an interferometer and high-speed photography as described elsewhere in this same volume. The experiments were carried out at Mach 3-7 and with initial pressures of 10 and 30 mm Hg in commercial nitrogen (about 0.5% oxygen). The speed was measured by photographing a slitted-off part of the interference pattern on a film moving at 0.117 mm/ μ sec, with an accuracy of 10% for incident and 15% for reflected waves. The density

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L 20820-65

ACCESSION NR: AT4048014

behind the front was also measured and found to be in agreement with calculated values. The interference pattern showed that with Mach numbers up to 6, the perturbation caused by interaction of the reflected shock with the boundary layer of the oppositely directed flow was localized in a certain region adjoining the wall and moving with the reflected shock. After passage of the reflected wave, the gas again became homogeneous. Orig. art. has: 4 figures.

ASSOCIATION: Energeticheskiy institut AN SSSR (Power Engineering Institute, AN SSSR)

SUBMITTED: 06Mar64 ENCL: 00 SUB CODE: ME

NO REF SOV: 004

OTHER: 005

Card 2/2

L 20819-65 EWP(m)/EPF(c)/EPR/EWA(h)/EWT(1)/EWT(m)/FCS(k)/EWP(b)/EWP(t)/ Pd-1/
P1-4/Pr..4/Ps..4 IJP(c)/SSD/AEDC(a)/SSD(b)/AFWL/ASD(f)-3/ASD(p)-3/AFETR/ESD(gs)
JD/MLK

ACCESSION NR: AT4048015

S/0000/64/000/000/0119/0126

AUTHOR: Zaytsev, S. G., Shatilov, A. P., Lazareva, Ye. V., Trukhanova, L. N.

TITLE: Measurement of density behind a reflected shock wave in nitrogen 27 151

SOURCE: AN SSSR. Energeticheskiy institut. Fizicheskaya gazodinamika i svoystva
gazov pri vy*okikh temperaturakh (Physical gas dynamics and properties of gases at
high temperatures). Moscow, Izd-vo Nauka, 1964, 119-126

TOPIC TAGS: gas dynamics, shock wave propagation, nitrogen shock wave, reflected
shock wave, gas density oscillatory relaxation

ABSTRACT: The paper is a continuation of previous work by the authors and deals with the
reflection of a shock wave by the solid end of a shock-tube which contains industrial nitrogen
(with about 0.5% oxygen). Using fixed illumination, the change in density with time was
determined by an interference method and recorded on film moving at 0.117 mm/ μ sec, both
for the incident and reflected waves. The shocks propagated at Mach 3 to 6; the initial
pressures were 10 and 3 mm Hg, the maximum temperature in the reflected shock was
4000K and dissociation was 0.2%. The equilibrium and non-equilibrium densities for a
section 52 mm from the end are graphed for Mach 2.9, 3.8 and 5.6. The time to

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ACCESSION NR: AT4048015

equilibrium density agrees with that of the oscillatory relaxation found by Blackman. The density behind the reflected shock was also obtained by continuous scanning, at 3 mm from the reflecting end of the tube where interaction with the boundary layer can be neglected. At higher Mach numbers density increases with time; thus the density becomes greater than the calculated value and the divergence increases with time. The appendix deals with equilibrium values of thermodynamic parameters behind incident and reflected shocks on the basis of mass, energy and momentum conservation and the equations of state. The results for a shock in nitrogen at 300K and 10 mm Hg are tabulated, and formulas are given for nonequilibrium values of thermodynamic parameters for incident and reflected shock waves. Orig. art. has: 2 tables, 5 figures and 18 equations.

ASSOCIATION: Energeticheskiy institut AN SSSR (Power Engineering Institute, AN SSSR)

SUBMITTED: 06Mar64

ENCL: 00

SUB CODE: ME, TD

NO REF SOV: 008

OTHER: 000

Card 2/2

ACCESSION NR: AP4044736

S/0207/64/000/004/0113/0149

AUTHORS: Zaytsev, S. G. (Moscow); Lazareva, Ye. V. (Moscow); Shatilov, A. P. (Moscow)

TITLE: Investigation of normal shock wave reflection in a shock tube

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1964, 143-149

TOPIC TAGS: Mach number, argon, nitrogen, carbon dioxide, shock tube/ Mach Zender interferometer

ABSTRACT: The normal reflection of a shock wave from a solid wall was investigated inside a 72 x 72 mm shock tube with 1.5 mm low-pressure chamber length and 9 mm high-pressure chamber length. Shift in the interference bands ΔS was determined to within 0.1 band on a Mach-Zender interferometer. The absolute errors in density for nitrogen, carbon dioxide, and argon gases were 0.308×10^{-5} , 0.319×10^{-5} , and $0.462 \times 10^{-5} \text{ g/cm}^3$, respectively. First, the state of the gas behind the incident shock wave was studied in N_2 , CO_2 , and argon gas for initial pressures of 10, 30, and 100 mm Hg respectively at $2 \leq M_g \leq 6$. Density measurements were made by means of continuous scanning with a vertical slit. The density field ρ_1/ρ_0 for CO_2 was

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ACCESSION NR: AP4044736

plotted versus M_g for complete thermodynamic equilibrium and thermal equilibrium between translational and 667 cm^{-1} vibrational level, with 1336 and 2350 cm^{-1} frozen. Next, the density field behind the reflected shock wave was measured using both vertical and inclined slits. For $3 < M_g < 4$ and 10 mm Hg pressure the measured density field in CO_2 agreed very well with theoretical calculations. The density field in nitrogen was measured in the range $2 < M_g < 6$. Vibrational relaxation times behind the reflected shock were around $1 \mu\text{sec}$. Argon measurements covered a Mach range $2 < M_g < 5$. It was found that for incident Mach numbers less than six density measurements behind the reflected shock agreed with calculations to within 3%. "The authors are deeply grateful to L. M. Trukhanova for taking part in the experiments and reducing the data." Orig. art. has: 7 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 26Jul63

ENCL: 00

SUB CODE: ME

NO REF Sov: 003

OTHER: 009

Card 2/2

L 00817-67 EWT(1)/EWP(m) WW/GD

ACC NR: AT6022659

SOURCE CODE: UR/0000/66/000/000/0170/0171

AUTHOR: Zaytsev, S. G.; Lazareva, Ye. V.

59
871

ORG: none

TITLE: Measurement of the density of carbon dioxide in the stream behind a shock front

SOURCE: AN SSSR. Energeticheskiy institut. Issledovaniya po fizicheskoy gazodinamike (Studies of physical gas dynamics). Moscow, Izd-vo Nauka, 1966, 170-171

TOPIC TAGS: carbon dioxide, shock wave front, thermodynamic equilibrium

ABSTRACT: Studies of carbon dioxide behind a shock front were carried out in the M_s range from 2 to 8. The density in the stream behind the shock front propagating at $M_s < 3$ increases and reaches a value corresponding to a complete thermodynamic equilibrium. This process is caused by a lag of the time of excitation of deformation vibrations ν_1 of the CO_2 molecule. For shock waves with $M_s > 3$, this increase in density was not observed. The densities measured immediately behind the shock front, ρ_1^* , coincide with the average density in the flow, ρ_1 . Comparison of measured and calculated densities leads to the conclusion that the density values immediately behind the shock front coincide within 2-3% with calculated values obtained by assuming a complete thermodynamic equilibrium. Interferograms of the stream show that the density fluctuates about an average value ρ_1 which remains constant within 2-3% over the entire length of the stream, from the shock front to the contact surface. It is concluded

Card 1/2

fv

Card 2/2

MOROZOVA, M.A., KOL'TSOV, N.S., TRUSHKINA, N.I., LAZAREVA, Ye.Ya.

Method of producing a copper subsulfate preparation. [Trudy] NIUIF
(MIRA 13:8)
no.167:151-155 '60.
(Copper sulfate) (Fungicides)

LAZAREVIC, A.

Yugoslavia (430)

Social Sciences - Serials

Rehabilitation of disabled workers. p. 13, YUGOSLAV TRADE UNIONS. (Central Council of the Confederation of the Trade Unions of Yugoslavia) Belgrade. (Monthly bulletin; English edition). No. 7, 1951.

East European Accessions List. Library of Congress. Vol 1, no. 13, November 1952.

UNCLASSIFIED.

LAZAREVIC, A.

Sulfur. p. 39.
(GLASNIK., Vol. 6, No. 7/8, 1956

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

LAZAREVIC, A.

Control of dimensions. p. 15.
(Hempro-biltten, Vol. 6, No. 10/18, 1956, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8. Aug 1957. Uncl.

LAZAREVIC, A.

Yugoslavia standards and the selection of samples. p. 14.
(Hempro-biltan, Vol. 7, No. 1, 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

TOMIC, J.; LAZAREVIC, B.

Treatment of tuberculous meningitis without intrathecalic administration
of drugs. Tuberkuloza, Beogr. 9 no.1:3-18 Jan-Feb 57.

1. Opsta decja bolnica Dr Olga Popovic-Dedijer u Beogradu (upravnik:
prim. dr Jordan Tomic)

(TUBERCULOSIS, MENINGEAL, in inf. & child,
ther., without intralubar injections (Ser))

YUGOSLAVIA

PAVICEVIC, Radojka, Dr, LAZAREVIC, Biserka, Dr; Public Health Center of Zvezdar (Head: TODOROVIC, Svetislav, Dr) (Dom narodnog zdravija na Zvezdaru), Belgrade.

"Anti-Smallpox Vaccination in Children with Allergic Symptoms"
Belgrade, Srpski arhiv za celokupno lekarstvo, Vol 93, No 10,
Oct 1965, pp 943-949

Abstract: In the period 1962-1964, of 3320 children given anti-smallpox vaccinations, every seventh child showed indications of allergy. Children ranging from 23 months to 6 years of age were vaccinated, and a comparison is shown between the group of children with allergic constitutions (108) and the control group. It was concluded that anti-smallpox vaccination can sometimes cause recurrences of allergic diseases which were present prior to vaccination. 8 Yugoslav, 8 Western references. German summary. Manuscript received 5 Jul 1965.

1/1

- 28 -

LAZAREVIC, D., akad.

Two types of three-joint arches. Glas SANU 12 no.2:194
'60 [Publ.'62].

1. Srpska akademija nauka i umetnosti, Beograd.

GADJANSKI, Branislav; BRNDUSIC, Zivojin; DRAGIC, Olga; LAZAREVIC, Dejan

Chaoul's contract radiotherapy. Srpski arh. celok. lek. 83 no.
3:367-376 March 55.

1. Radioski Institut Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr. Stojan Dedic.

(RADIOTHERAPY,
cancer of skin, Chaoul's contact method, results (Ser))

(SKIN, neoplasms
radiother., Chaoul's contact method, results (Ser))

PUPEZIN, J.; CIRIC, M.; LAZAREVIC, D.

Isotopic analysis of lithium with a mass spectrometer. Bul
Inst Nucl 13 no.2:77-83 Jl '62.

1. The Boris Kidrich Institute of Nuclear Sciences, Department
of Physical Chemistry, Vinca.

PODVINEC, Srecko; POPOVIC, Vladeta; LAZAREVIC, Dragica

Our treatment of laryngeal carcinoma — several year results.
Srpski arh. celok. lek. 91 no.5:461-465 My '63.

1. Otorinolaringoloska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Srecko Podvinec Radioloski institut Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Bogoljub Bosnjakovic.

(LARYNGEAL NEOPLASMS) (LARYNGECTOMY)
(NEOPLASM RADIOTHERAPY) (NEOPLASM STATISTICS)

S -

D. LAZAREVIC

"Thin Arches of Parallel Action Built in Big Dame, p. 1." (BULLETTIN,
Vol. 9, No. 3, 1952, Beograd Yu-go-lavia)

SO. Monthly List of East European Accessions, L.G., Vol. 2, No. 11
Nov. 1953, Uncl.

LAZAREVIC, D.

Reform of schools and certain factors which affect it. p. 1109.
TEHNKA (Savaz inzenjera i tehnika Jugoslavije) .Beograd. Vol. 11,
no. 8, 1956.

SOURCE: East Europe Accession List (EEAL),
Library of Congress, Vol. 5, no. 11, Nov. 1956

LAKAREVIC, D.

The calculation of full and combined cross sections stressed in the shade of small eccentricity. p. 1275.
(Tehnika, Vol. 11, no. 9, 1956. Beograd, Yugoslavia.)

SO: Monthly List of East European Accessions. (ERAL) LC, Vol. 6, No. 7,
July 1957. Uacl.

LAZAREVIC, D.

TECHNOLOGY

Periodical: ZBORNIK, No. 3, 1958.

LAZAREVIC, D. Extreme magnitudes of moments and transversal forces in the systems of arc constructions. p. 25.

Monthly List of East European Accessions (SEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

LAZAREVIC, D.

TECHNOLOGY

Periodical: SAOPSTENJA. TRANSACTIONS. No. 10, 1958.

LAZAREVIC, D. Devices for obturating tunnels in testing the loss of water under stream pressure. p. 13.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

LAZAREVIC, D.

TECHNOLOGY

Periodical: SAOPSTENJA. TRANSACTIONS. No. 13, 1958.

LAZAREVIC, D. Experimental determination of the elastic stability of arches. p. 1.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

LAZAREVIC, Dorde, akad.; VORONJEC, Konstantin; PIVKO, Svetopolk

Reports on the 6th Yugoslav Congress of Rational and Applied Mechanics, Split, June 4-9, 1962. Glas SANU 14 no.1:63-66 '62 [publ. '63].

1. Corresponding Member of the Serbian Academy of Sciences and Arts (for Voronjec and Pivko).

LAZAREVIC, Dorde, inz.

Two types of parabolic three-hinge arches. Zbor grad Univ
Beograd 5 171-196 '62.

1. Clan Redakcionog odbora, "Zbornik Gradevinskog fakulteta".

LAZAREVIC, Dorde, akad., inz., redovni profesor (Beograd, 7.jula br.8)

Some problems in the building of skyscrapers. Tehnika Jug
17 no.8:Suppl.: Radioizotopi zrac 1 no.8:1461-1470 Ag '62.

1. Građevinski fakultet Univerziteta u Beogradu.

LAZAREVIC, Dordje, akad., inz., prof. (Beograd, 7.jula br.8)

Influence of normal forces on the value of horizontal pressure in
the two-joint arches and frames. Tehnika Jug 17 no.7:Suppl.:
Gradevinarstvo 16 no.7:1261-1268 Jl '62,

1. Gradevinski fakultet Univerziteta, Beograd.

LAZAREVIC, Dorde, akademik, prof., dr inz. Beograd, Bulevar revolu-
cije 73/I)

Fixing of welded reinforcements. Tehnika Jug 19 no.3:
Suppl:Gradevinarstvo 18 no.3:435-444 Mr '64.

1. Faculty of Civil Engineering, University of Belgrade.

BUMBASIREVIC, Zivojin; LAZAREVIC, Dejan

Radiological findings in osteomyelitis treated with antibiotics.
Srpski arh. celok. lek. 92 no.12:1227-1234 D '64.

1. Klinika za ortopedsku hirurgiju i traumatologiju Medicinskog
fakulteta Univerziteta u Beogradu (Upravnik: prof. dr. Svetislav
Stojanovic).

L 21415-66 EPF(n)-2/EWP(t) L¹⁰⁽⁶⁾ ES/IN/TC G
ACC NR: AP6009493 SOURCE CODE: YU/0001/66/000/003/0515/0519

AUTOR: Lazarevic, Dorde (Graduate engineer of technology; Adviser) 38

ORG: Institute of Nuclear Sciences "Boris Kidric," Beograd-Vinca
(Instituta za nuklearne nauke "Boris Kidric") 13

TITLE: The effect of small aluminum additions on the structure of
uranium-molybdenum alloys

SOURCE: Tehnika, no. 3, 1966, 515-519

TOPIC TAGS: nuclear fuel, fuel element, fuel element material, fuel
element alloy, uranium alloy, molybdenum containing alloy, aluminum
containing alloy

ABSTRACT: A series of uranium-molybdenum alloys containing 0.4—0.6%
molybdenum (a material for fuel elements of gas-cooled reactors) were
studied in order to determine the effect of small additions
(500—1500 ppm) of aluminum on the alloy structure. The experiments
showed that aluminum, which is almost insoluble in uranium, forms nu-
merous nucleation centers, thereby prevents an extensive grain growth,
and reduces the anisotropy, which in alloys with low molybdenum contents
leads to buckling of the fuel elements. An alloy containing 0.6%

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UDC: 669.882.5'28:669.71=861

I 21415-66
ACC NR: AP6009493

molybdenum and 500 ppm aluminum has the smallest and most uniform grain [DV]
size: 0.04—0.06 mm. Orig. art. has: 11 figures.

SUB CODE: 18, 11/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 012
SOV REF: 002/ ATD PRESS: 4221

Card 2/2 ULT

LAZAREVIC, Lazar, inz. (Novi Sad, Petra Drapsina 17/I)

Advantages from the railroad electrification by the single-phase
25 kv.-50 c.p.s. system. Tehnika Jug:Suppl.:Sachracaj 10 no.2:
369-377 Fe '63.

1. Savetnik, sef biroa za elektrifikaciju Zajednice zeleznickih
preduzeca, Novi Sad.

LAZAREVIC, Lazar, inz. (Novi Sad, Petra Drapsina 17/I)

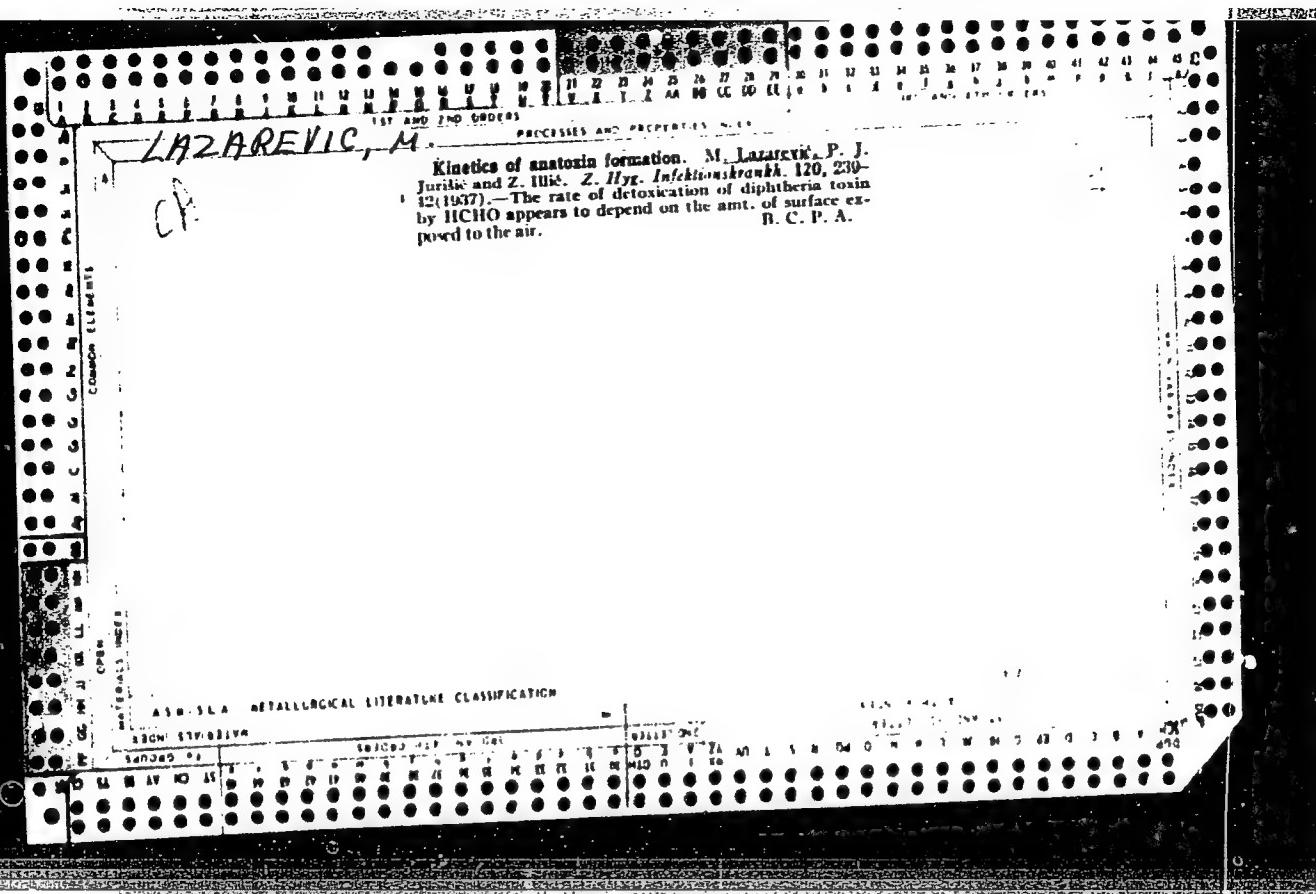
Sparking, and collector circular fire in the motors and
generators of diesel-electric locomotives. Tehnika Jug
18 no. 12: Supplement: Elektrotehnika 12 no. 12: 2286-
2292 D '63

1. Sef biroa za studije i razvoj kapaciteta Zajednice
zeleznickih preduzeca, Novi Sad.

LAZAREVIC, Lazar, inz. (Novi Sad, Petra Drapsina 17/1)

Effect of a single-phase system of 25 kv. and 50 c.p.s.
electric traction on the nearby electric installations
in the electrification of railroads. Tehnika Jug 18 no.10:
Supplement: Elektrotehnika 12 no.10:1905-1914 0'63.

1. Savetnik, sef Biroa za studije i razvoj kapaciteta
Zajednice zeleznickih preduzeca, Novi Sad.



LAZAREVIC, M.

On serum sickness. Glas.hig.inst., Beogr. 4 no.1-2:67-76 Jan-June
'55. (ALLERGY.
serum sickness caused by horse serum, etiol.(Ser))

LAZAREVIC, M.

TECHNOLOGY

Periodical: ELEKTROPRIVREDA. Vol. 11, no. 9/10, Sept./Oct. 1958.

LAZAREVIC, M. Present hydroelectric development in Montenegro and prospects of its development. p. 421.

Monthly List of East European Accessions (EFAI) LC, Vol. 8, no. 3
March 1959 Unclass.

LAVAREVIC, N.
J. S. (S. S.) Given Name

(1)*

Country: Yugoslavia

Academic Degrees: / not given /

Affiliation: Enterprise "Crvena zastava" (Preduzece "Crvena zastava")

Source: Belgrade, Jugoslovensko pronalazstvo, No 7, July 1961, p. 2.

Data: "Prizes for Technical Patents and Inventions."

165

LAZAREVIC, M.; LUKETIC, N.

Role of the bacteriological control in the preparation and sale of food products and the smear preparation technic. Higijena 13 no.2: 140-145 '61.

(FOOD INSPECTION)

LAZAREVIĆ, Mihajlo

To memory of Lavoslav Mihajlovic-Fiser, 1905-1962; obituary.
Elektroprivreda 15 no.2/3:116 F-Mr '62.

STOJANOVIC, Svetislav, prof., dr.; MILOSEVIC, Dorde, dr.; LAZAREVIC, Milan, dr.; IVANOVIC, Milenko, dr.; MAKSIMOVIC, Bozidar, dr.

Open leg fractures. Voj.san.pregl. 18 no.4:339-344 Ap '61.

1. Medicinski fakultet u Beogradu, Klinika za ortopedsku hirurgiju i traumatologiju.

(LEG fract & disloc)

SIMIC, Branislav; LAZAREVIC, Miroslav

Our 3-year experience with resistant Koch's bacilli. Tuberkuloza 15 no.2:260-262 Ap-Je '63.

1. Specijalna decja bolnica za tuberkulozu i bolesti pluca,
"Dedinje" - Upravnik: dr Jovan Djordjevic. Gradska bolnica
za grudobolne, Bezanijska Kosa - Upravnik: prim. dr Ljubisa
Ilic.

(MYCOBACTERIUM TUBERCULOSIS) (ISONIAZID)
(STREPTOMYCIN) (AMINOSALICYLIC ACID)
(DRUG RESISTANCE, MICROBIAL)

5

LAZAREVIC, O.

Estimating operative power of radar. p. 910.

VODJNO-TEHNIKI GLASNIK. Beograd, Yugoslavia. Vol. 3, no. 12, Dec. 1955.

Monthly List of East European Accessions (EEAI) LC, Vol. 2, no. 9, Sept. 1959.

Uncl.

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